

# INTERNATIONAL SEARCH REPORT

PCT/EP2004/005376

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B01J2/16 B01J8/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 635 684 A (MANDEVILLE JOSCELYNE FRANCIS) 21 April 1953 (1953-04-21)	1-6
Y	column 2, line 38 - column 3, line 17; figure	7-10
Y	US 5 213 820 A (UHLEMANN HANS ET AL) 25 May 1993 (1993-05-25) column 4, line 24 - line 35; figure 1	7-10
A	EP 1 312 410 A (FREUND IND CO LTD) 21 May 2003 (2003-05-21) column 9, line 27 - column 12, line 10; figure 1 ----- -/--	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

14 September 2004

Date of mailing of the international search report

21/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Cubas Alcaraz, J

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 036 338 A (HERMAN NACK) 29 May 1962 (1962-05-29) column 5, line 65 - column 8, line 26; figure 1	1-10
A	US 4 946 653 A (STOPP GERHARD ET AL) 7 August 1990 (1990-08-07) column 1, line 60 - column 3, line 13; figure 1	1-10

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
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			DE	58900108 D1	13-06-1991
			EP	0332929 A1	20-09-1989
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US 3036338	A	29-05-1962	NONE		
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